

REMARKS

Please consider the present amendment with the attached Request for Continued Examination (RCE) under 37 C.F.R. § 1.114. This amendment is in accordance with 37 CFR § 1.114. Claims 1-21 remain in the case. Reexamination and reconsideration of the application, as amended, are requested.

The preamble of claims 1-12 have been amended to replace the phrase "An ink jet printing apparatus including an ink supply device containing ink" with the phrase --A fluid ejection device coupled to an ink supply and having multiple printing modes--. In addition, the body of applicable claims have been amended to preserve consistency and antecedent basis.

Thus, the Applicants respectfully submit that the claims are in immediate condition for allowance. The Examiner is therefore respectfully requested to pass this application to issue. Additionally, in an effort to expedite and further the prosecution of the subject application, the Applicants kindly invite the Examiner to telephone the Applicants' attorney at (818) 885-1575 if the Examiner has any questions or concerns. Please note that all correspondence should continue to be directed to:

Hewlett Packard Company
Intellectual Property Administration
P.O. Box 272400
Fort Collins, CO 80527-2400

Respectfully submitted,
Dated: July 8, 2002



Edmond A. DeFrank
Reg. No. 37,814
Attorney for Applicants

VERSION WITH MARKINGS TO SHOW CHANGES MADE
IN THE CLAIMS

Below are marked-up versions of amended claims 1 and 13:

1. (Twice Amended) [An ink jet printing apparatus including an ink supply device containing ink] A fluid ejection device coupled to an ink supply and having multiple printing modes, comprising:

[a printhead structure having multiple printing modes; and]

a sufficient number of ink drop generators fluidically coupled to the ink supply device and formed in the [printhead structure] fluid ejection device and arranged along at least three axes that are substantially parallel and spaced apart from each other to provide printing resolution of at least 600 dots per inch with each printing mode.

2. (Once Amended) [The ink jet printing apparatus] The fluid ejection device of claim 1, wherein the plurality of ink drop generators is arranged along four axes that are substantially parallel and spaced transverse to each other.

3. (Once Amended) [The ink jet printing apparatus] The fluid ejection device of claim 1, wherein the plurality of ink drop generators arranged along the at least three axes are staggered with respect to each of the axes to decrease an effective [printhead] pitch of the fluid ejection device.

4. (Once Amended) [The ink jet printing apparatus] The fluid ejection device of claim 3, wherein the effective [printhead] pitch of the fluid ejection device is decreased to less than half that of a plurality of ink drop generators arranged along a single axis.

5. (Once Amended) [The ink jet printing apparatus] The fluid ejection device of claim 2, wherein the plurality of ink drop generators arranged along the four axes are staggered with respect to each of the axes to decrease an effective [printhead pitch] of the fluid ejection device to approximately one-fourth that of a plurality of ink drop generators arranged along a single axis.

6. (Once Amended) [The ink jet printing apparatus] The fluid ejection device of claim 1, wherein at least some of the plurality of ink drop generators are arranged along two of the at least three axes in a staggered manner so as to approximately double a print resolution with respect to a plurality of ink drop generators arranged along a single axis.

7. (Once Amended) [The ink jet printing apparatus] The fluid ejection device of claim 1, further comprising a fluid reservoir containing ink that is fluidically coupled to the plurality of ink drop generators.

8. (Once Amended) [The ink jet printing apparatus] The fluid ejection device of claim 5, further comprising a first ink feed slot disposed between a first axis group and a second axis group and a second ink feed slot disposed between a third axis group and a fourth axis group.

9. (Once Amended) [The ink jet printing apparatus] The fluid ejection device of claim 5, wherein an arrangement of ink drop generators along each of the four axes is an axis group having an axis pitch of approximately 1/300 of an inch and whereby a combination of four staggered adjacent axis groups have an effective pitch of approximately 1/1200 of an inch.

10. (Once Amended) [The ink jet printing apparatus] The fluid ejection device of claim 6, wherein an arrangement of ink drop generators along each of the three axes is an axis group having an axis pitch of approximately 1/300 of an inch and whereby a combination of two staggered adjacent axis groups have an effective pitch of approximately 1/600 of an inch.

11. (Once Amended) [The ink jet printing apparatus] The fluid ejection device of claim 1 wherein the [ink jet printing apparatus] fluid ejection device is a disposable print cartridge.

12. (Once Amended) [The ink jet printing apparatus] The fluid ejection device of claim 1, further comprising:

a carriage assembly for imparting relative motion between the [printhead structure] fluid ejection device and a print media;

an ink supply device fluidically coupled to the plurality of ink drop generators; and

a controller for controlling operation of the carriage assembly.